BRUHATH BANGALORE MAHANAGARA PALIKE

Detailed estimate the work of :- Improvements to roads and drains in Hebbala sarovara, Balaji layout, and surrounding areas in ward no.8, Kodigehalli.

Est Cost: 20.00Lakhs

Sl no	Description of Item	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-11. Excavation for road way in all types of soil by mechanical means including cutting and pushing the earth to site of embankment including trimming bottom and sides slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. MORTH Specifications No.301 (Page No.142, Item No.19.11)							
	11th Cross	1	152.00	7.00	0.50	532.00		
	For drain	2	152.00	(0.50+1.35/2= 0.925	0.75	210.90		
						742.90	73.44 per Cum	54559.00
	Basic Rate	68.00						
	Area Wtg 8%	5.44						
	Net Rate	73.44						
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. (Page No.141, Item No.19.1)							
	For culverts	4	6.00	2.00	1.20	57.60		
						57.60	83.16 per Cum	4790.00
	Basic Rate	77.00						
	Area Wtg 8%	6.16						
	Net Rate	83.16						
3	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement 180kgs,with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @o.57 cum machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost all materials, labour, HOM of machinery, curing complete as per specifications.(P-12, I-4.3)							
	For culverts	4	6.00	2.00	0.15	7.20		
					Total	7.20	5070.60 Per Cmtr	36508.00
	Basic Rate	4695.00						
	Area Wtg 8%	375.60						
	Net Rate	5070.60						

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4 Providing and constructing granite/trap/basalt size stone masonry in basement with cement mortar 1: 6 stone chistel dressed in courses not less than 15 cms high bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications (item no.5.9, page no.23)

For culverts	4x2	6.00	0.60	0.80	23.04		
				Total	23.04	4905.36	113019.00
						Per Cmtr	

Basic Rate	4542.00
Area Wtg 8%	363.36
Net Rate	4905.36

5 Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs with 20mm and down size graded granite metal coarse agregates @ 0.69cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exeeding 15 cm thick well compacted in foundation and plinth and cills, including cost all materilas, labour, HOM of machinery, curing complete as per specifications (page no.12 , I,no-4.6)

wall coping f/c	4x2	6.00	0.60	0.15	4.32		
				Total	4.32	5490.72	23720.00
						Per Cmtr	

Basic Rate	5084.00
Area Wtg 8%	406.72
Net Rate	5490.72

6 Providing and fixing RCC 1:2:4 Precast slab for covrering using 20mm and Downsize granite jelly as per design including necessary centering, forming, Curing and finishing with CM 1:3 etc complete 250cm thick (As per Data rate approved)

For culverts	4	6.00	2.00		48.00		
				Total	48.00	5111.00	245328.00
						per Sqm	

7 Providing grainet slab of selected qulity roughly dressed and fixed in cement mortar 1:6 including fixing curing etc complete (page No. 25 in No. 5.31.2) 10cm thick.

For drain	2	152.00	1.45		440.80		
				Total	440.80	794.88	350383.00
						Sqm	

Basic Rate	736.00
Area Wtg 8%	58.88
Net Rate	794.88

8 Providing one line dressing to granite stone slab/ granite stone masonry as per specifications (Page No. 24 Item No. 5.17

	2	152.00	1.45		440.80		
				Total	440.80	555.12	244697.00
						Per Smtr	

Basic Rate	514.00
Area Wtg 8%	41.12
Net Rate	555.12

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9 KSRRB 300-58.Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including fillig in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH/ Chapter 3 (Page No. 148 Item No. 19.64)

11th Cross	1	152.00	7.00		1064.00		
				Total	1064.00	4.86 Per Smtr	5171.00

Basic Rate	4.50
Area Wtg 8%	0.36
Net Rate	4.86

10 KSRRB 300-64.1.Extra for watering the earth to bring the earth upto required optimum moisture content manually including cost of all labour complete as per specifications. MORTH / Chapter 3 (Page No. 148, Item No. 19.71)

11th Cross	1	152.00	7.00	0.30	319.20		
				Total	319.20	7.56 Per cum	2413.00

Basic Rate	7.00
Area Wtg 8%	0.56
Net Rate	7.56

11 KSRRB 300-65 .Extra for rolling to specification with the use of vibratory roller when earth is at suitable moisture content with desired field density not less than 95% of maximum bry density (Modified deavy proctor test) including HOM of machoneries complete as per specifications. MORTH / Chapter 3 (Page No. 149, Item No. 19.73)

11th Cross	1	152.00	7.00	0.30	319.20		
				Total	319.20	17.28 Per cum	5516.00

Basic Rate	16.00
Area Wtg 8%	1.28
Net Rate	17.28

12 KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the water at OMC in machanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.MORTH specification No.406 (Page No.157, Item No.20.18)

11th Cross	1	152.00	7.00	0.20	212.80		
				TOTAL	212.80	1713.96 Per cum	364731.00

Basic Rate	1587.00
Area Wtg 8%	126.96
Net Rate	1713.96

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13 Cleaning the existing WBM road surface including removing of binding materialse and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specificationg. MORTH specification Clause 501 (Page no.160, Item no.21.1)

11th Cross	1	152.00	7.00		1064.00		
					8250.00	12.96	106920.00

Basic Rate 12.00
Area Wtg 8% 0.96
Net Rate 12.96
Per sqm

14 KSRRB M500- 15. Providing, laying bituminous Concrete using 100/120 THP capacity H.M.P with Sensor paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% CRMB 55 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 (Page No 164., I.No.21.23.2 of KPWD S.R 2015-16).

11th Cross	1	152.00	7.00	0.030	31.92		
					31.92	9888.48	315640.00

Basic Rate 9156.00
Area Wtg 8% 732.48
Net Rate 9888.48
Per Cum

15 KSRRB M800-13.. Road Marking with Hot Applied Thrmoplastic Compound with Refletrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.Th4 finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No.803 (Page no.178, I No.24.15)

For side	2	152.00	0.15		45.60		
Centre	1	49.00	0.15		7.35		
				Total	52.95	473.04	25047.00

Basic Rate 438.00
Area Wtg 8% 35.04
Net Rate 473.04
Per smtr

16 Lead for disposal of debris shall be payable at carrage rates by mechanical means including loading and unloading From 13.30 Kms

Qty vide item No 1					742.90		
				Limit to	715.00	114.08	81567.00
						Per cmtr	
						Total Rs:-	1980009.00

17 Add 1% QC Charges 19800.09

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18 Miscellaneous and unforeseen charges 190.91

Total Rs:- 2000000.00

(Rupees Twenty Lakhs only)

CERTIFICATES

1 The work will be Executed within BBMP limit only
2 The work spot is inspected by me
3 The items Provided in the Estimate are quite Essential
4 The Estimate is prepared Based on CSR 2015-2016

Asst.Engineer
Waard No-8

Asst. Executive Engineer
Kodigehalli Subdivision
BBMP, Bangalore

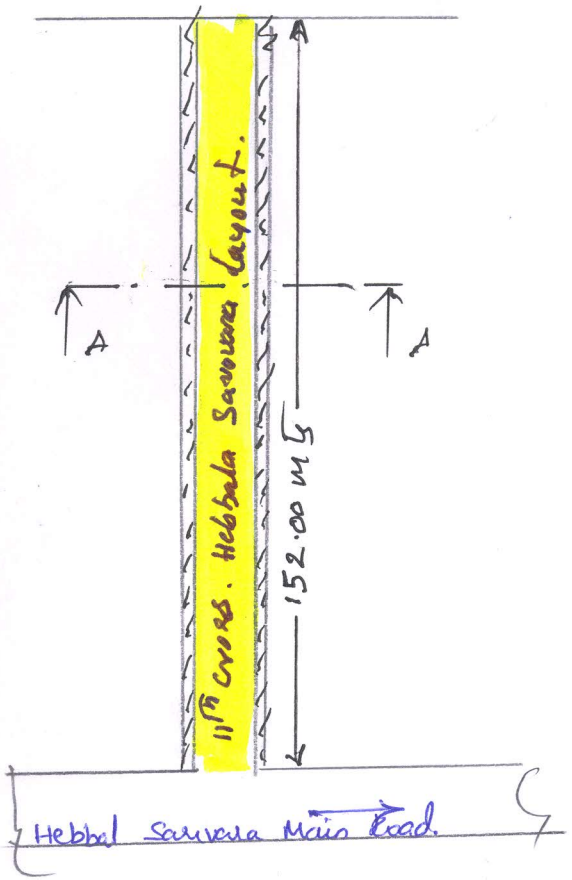
Executive Engineer
Byatarayanapura Division
BBMP, Bangalore
15/12

Administrative Approval
Accorded For 20.00 lakhRs
Head of A/C P-1771
CER NO : 60 Dt: 28/12/16

TA CE (YNK)

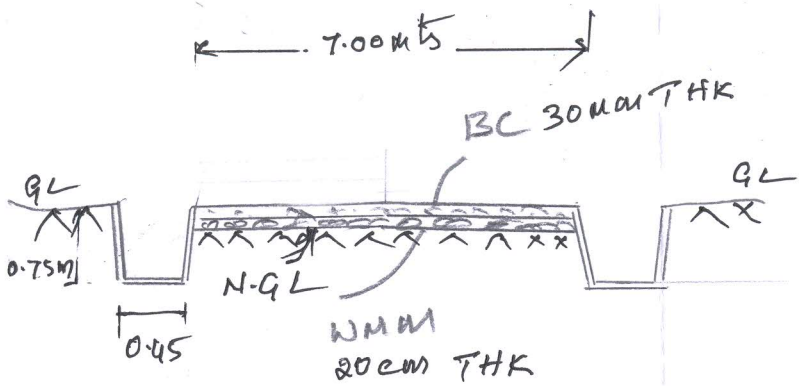
TECHNICAL SANCTION
Accorded For Rs. Twenty Lakhs only
Head of A/c. P-1771
Div. Ref. No. 87/16-17 Date 28/12/16

AE EE(BTP) 28/12



INDEX

- proposed New drain
- propsed New road.



Section on A-A

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